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DATE MAILED: 05/01/2008

\$1740

08/01/2008

NOTICE OF ALLOWANCE AND FEE(S) DUE

5514 7590 05/01/2008 FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA

NO

TITLE OF INVENTION: INSERTION AND EXTRACTION OF A MESSAGE IN AN IMAGE

\$1440

NEW YORK, NY 10112

nonprovisional

EXAMINER KIM. CHONG R PAPER NUMBER ARTHNIT 2624

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,659	12/16/2003	Herve Le Floch	01807.002426	2846

APPLN, TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE \$300

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless correct maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of r a) specifying a new corres	pondence address; a	be mailed to the current nd/or (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Note Feet pags have	e: A certificate of ma s) Transmittal. This ors. Each additional p its own certificate of	ailing can only be used for certificate cannot be used for aper, such as an assignment finailing or transmission.	or domestic mailings of the for any other accompanying int or formal drawing, must
5514 ETTZDA TDICI	7590 05/01 K CELLA HARPI			Certif	icate of Mailing or Trans	mission
30 ROCKEFEL NEW YORK, N	LER PLAZA	K & SCINTO	Stat addi tran	es Postal Service with essed to the Mail S smitted to the USPTC	ree(s) Transmittal is being in sufficient postage for fir stop ISSUE FEE address 0 (571) 273-2885, on the d	g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.
						(Depositor's name)
			<u> </u>			(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	Α	TTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,659	12/16/2003		Herve Le Floch		01807.002426	2846
TITLE OF INVENTION	: INSERTION AND EX	TRACTION OF A MESS	SAGE IN AN IMAGE			
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE I		
nonprovisional	NO	\$1440	\$300	\$0	\$1740	08/01/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS			
KIM, CI		2624	382-100000			
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563). Change of correspondence address (or Change of Correspondence Address form "FIOSB/122) anached. "Fee Address" indication (or "Fee Address" Indication form PTOSB/47; Rev 03-02 or more recent) attached. Use of a Customer Youther is recutived.		(I) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent atto	or printing on the patent front page, list he names of up to 3 registered patent attorneys gents OR, alternatively, he name of a single firm (having as a member a			
PLEASE NOTE: Un recordation as set for (A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		(B) RESIDENCE: (CITY	atent. If an assignee assignment. and STATE OR CO	UNTRY)	ocument has been filed for
4a. The following fee(s)			o. Payment of Fee(s): (Plea	se first reapply any	previously paid issue fee	shown above)
☐ Issue Fee ☐ Publication Fee ①	vo small entity discount p	permitted)	A check is enclosed. Payment by credit car	d. Form PTO-2038 is	s attached.	
Advance Order -			The Director is hereby overpayment, to Depo	authorized to charge sit Account Number	the required fee(s), any de (enclose a	ficiency, or credit any n extra copy of this form).
5. Change in Entity Sta	tus (from status indicated is SMALL ENTITY statu		_		ENTITY status. Sec 37 C	
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other than t Office.	he applicant; a registe	ered attorney or agent; or the	ne assignee or other party in
Authorized Signature				Date		
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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FITZPATRICK CELLA HARPER & SCINTO			KIM, CHONG R	
30 ROCKEFELLER PLAZA NEW YORK, NY 10112		ART UNIT	PAPER NUMBER	
		2624		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 882 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 882 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/735,659	LE FLOCH, HERVE	
Examiner	Art Unit	
CHADLES KIM	2624	

The MAILING DATE of this communication appears on the cover sheet with the correspondence address
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1. This communication is responsive to submissions received on April 7, 2008.
- 2. The allowed claim(s) is/are 2-11,13-26 (renumbered as claims 1-24 accordingly).
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a)

 All b)

 Some* c)

 None of the:
 - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. X Examiner's Amendment/Comment
- Examiner's Statement of Reasons for Allowance
- Other _____.

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DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or
additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the
payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Brian Klock (Registration No. 36,570) on April 28, 2008. The application has been amended as follows:

In the claims:

Claim 3, line 13, replace "predetermined index" with --determined symbol index--

Claim 3, line 15, replace "symbol" with --message symbol--

Claim 4, line 2, replace "symbol" with --message symbol--

Claim 7, line 5, replace "symbols" with --symbol indexes--

Claim 7, line 6, replace "symbol" with --symbol index--

Claim 9, line 2, delete "of the symbol"

Claim 10, lines 8, 10, 11, replace "symbol" with --symbol index--

Claim 14, line 13, replace "predetermined index" with --determined symbol index--

Claim 14, line 14, replace "symbol" with --message symbol--

Claim 15, line 2, replace "symbol" with --message symbol--

Claim 18, line 6, replace "symbols" with --symbol indexes--

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Claim 18, line 7, replace "symbol" with --symbol index--

Claim 20, line 2, delete "of the symbol"

Claim 21, lines 8, 10, 11, replace "symbol" with --symbol index--

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

Referring to claims 3 and 14, the essential difference from the prior art is determining the watermarked value of the coefficient by at least selecting a modified value of the coefficient, determining a symbol index according to the modified value and a first predetermined function, determining the value of the message symbol corresponding to the determined symbol index, and verifying that the determined value of the message symbol corresponds to the transformation of the modified value by a second predetermined function. These features in combination with the other elements of the claim and the base claim are not disclosed or suggested by the prior art of

Referring to claims 7 and 18, the essential difference from the prior art is extracting the message from an image by calculating a symbol index and a binary value according to a value of each coefficient of the image, totaling the number of each of the binary values obtained for each of the symbol indexes, and allocating to each symbol index the binary value having the largest total. These features in combination with the other elements of the claim and the base claim are not disclosed or suggested by the prior art of record.

Art Unit: 2624

Referring to claims 10 and 21, the essential difference from the prior art is extracting a message from an image by calculating a symbol index according to a value of each coefficient of the image, calculating a first and a second value, both according to a value of the coefficient, a first totaling of the absolute values of the differences between the value of the coefficient and the first value for each symbol index, and a second totaling of the absolute values of the differences between the value of the coefficient and the second value for each symbol index, and allocating to each symbol index a binary value according to the smallest total amongst the first and second totals. These features in combination with the other elements of the claim and the base claim are not disclosed or suggested by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles Kim whose telephone number is 571-272-7421. The examiner can normally be reached on Mon thru Thurs 8:30am to 6pm and alternating Fri 9:30am to 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on 571-272-7453. The fax phone number for the organization where this application or proceeding is assigned is 571-272-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/CHARLES KIM/ Patent Examiner Art Unit 2624 chongr.kim@uspto.gov

April 28, 2008